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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/792,264

03/03/2004

Kenneth J. Eldredge

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7590

01/13/2005

HEWLETT-PACKARD COMPANY

Intellectual Property Administration

P. O. Box 272400

Fort Collins, CO 80527-2400

EXAMINER

PRASAD, CHANDRIKA

ART UNIT

PAPER NUMBER

2839

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/792,264	ELDREDGE, KENNETH J.	
	Examiner	Art Unit	
	Chandrika Prasad	2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 14-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 14-42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 14-18, 21-23 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Baker et al. (4511201).

Baker (Figures 1-12) shows an electrical assembly 1 having an electrical component with a plurality of contacts 30 electrically connected to a plurality of contact terminals 20 on a plurality of ledges of an electrical device 2 by means of a plurality of conductor members (bond wires) 10. The component has a cavity sized to receive a portion of the device 2. Contact members 10 are soldered to contacts 30. The electrical component includes a circuit board 3. Contacts 30 are provided on as contact pads on a surface of the component. The device comprises a top layer and a bottom layer with contacts on the bottom layer. The conductors 10 extend down from the contact terminal on the ledges.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 19 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baker et al. (4511201).

Baker shows all the features of these claims except the use of adhesive to join the contacts of the device and the component. The use of adhesive to join two parts is common knowledge. It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use an adhesive to join the contacts of the device and the component because the use of adhesive to join two parts is common knowledge and widely used.

6. Claims 20, 34 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baker et al. (4511201) in view of Browning (6629193).

Baker shows all the features of these claims except the device being an atomic resolution storage device (ARS). ARSs are well known as shown by Browning. It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use an Baker's assembly in an ARS device because such devices are well known and widely used.

7. Claims 24-25, 27-33, 35-37 and 40-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baker et al. (4511201).

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Baker shows all the features of these claims except a middle layer in the device and sizes of the layers. It would have been obvious to one of ordinary skill in the art at the time of the instant invention to provide a middle layer and the top layer smaller than the middle layer because this would require a mere duplication of an essential part and varying the size of the layers which involve only routine skill in the art.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gogal (4288841), Isaac et al. (5557212), Baker et al. (4652973), Yamazaki et al. (5975915), Wark et al. (6782613).

Contact Information

9. Any correspondence to this action may be mailed to:

**Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chandrika Prasad whose telephone number is (571) 272-2099.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor can be reached at (571) 272-2800 ext 39. The fax number is (703) 872-9306.



Chandrika Prasad
Primary examiner
January 05, 2005